IN THE CLAIMS

- 1. (original) A sieve comprising:
 - a base:
 - a sieve screen frame mounted on the base;
 - a sieve screen mounted in the frame;
 - a vibrator arranged to vibrate the frame relative to the base;
 - a guide member above the sieve screen for controlling flow of material to be sieved over the sieve screen; and
 - an excitation source arranged to vibrate the guide member so as to induce a deblinding excitation of the sieve screen.
- 2. (original) A sieve in accordance with Claim 1, wherein the excitation source is attached to the guide member.
- 3. (currently amended) A sieve in accordance with either of Claim 1—or Claim 2, wherein the sieve screen frame and sieve screen are circular.
- 4. (original) A sieve in accordance with Claim 2, wherein the guide member takes the form of a spiral-like curve having a progressively increasing radius of curvature and extending through at least 270°.
- 5. (currently amended) A sieve in accordance with either—Claim 1—or Claim 2, wherein the sieve screen frame and sieve screen are rectangular.
- 6. (original) A sieve in accordance with Claim 5, wherein the guide member is a single zig-zag-shaped rod having at least one aperture above the sieve screen through which material to be sieved can flow.
- 7. (currently amended) A sieve in accordance with any of Claims

- 1 to 5 Claim 1, having a plurality of said guide members, each having a respective said excitation source.
- 8. (currently amended) A sieve in accordance with any preceding elaimClaim 1, wherein the guide member is secured to the top surface of the sieve screen.
- 9. (currently amended) A sieve in accordance with any of Claims 1 to 7Claim 1, wherein the guide member is in contact with the top surface of the sieve screen.
- 10. (currently amended) A sieve in accordance with any of Claims 1 to 7Claim 1 particularly for sieving a liquid material, wherein the guide member is spaced from the top surface of the sieve screen and the deblinding excitation is transmitted to the sieve screen through said liquid material.
- 11. (original) A sieve comprising:
 - a base;
 - a circular sieve screen frame mounted on the base;
 - a circular sieve screen mounted in the frame and having a centre;
 - a vibrator arranged to vibrate the frame relative to the base;
 - a resonator secured to or contacting the sieve screen, wherein the resonator takes the form of a spiral-like curve starting at or near the centre of the sieve screen, the curve having a progressively increasing radius of curvature and extending through at least 270° about said centre; and
 - an excitation source arranged to excite the resonator, to induce a deblinding excitation of the sieve screen.
- 12. (currently amended) A sieve in accordance with any preceding elaimClaim 1, wherein the excitation source comprises a pneumatic actuator.

- 13. (currently amended) A sieve in accordance with any of Claims 1 to 11Claim 1, wherein the excitation source comprises an electrically powered actuator.
- 14. (currently amended) A sieve in accordance with any preceding claim 1, wherein the excitation source provides ultrasonic excitation.
- 15. (original) A sieve comprising:
 - a base;
 - a sieve screen frame mounted on the base;
 - a separator screen mounted in the frame;
 - a vibrator arranged to vibrate the frame relative to the base;
 - a resonator secured to or contacting the separator screen, wherein the resonator comprises a rod extending between spaced ends;
 - an ultrasonic transducer at one of said spaced ends to excite the resonator rod at a resonant frequency having a predetermined wavelength along the length of the resonator rod;
 - said resonator rod having at least a portion of its length which bends smoothly in a single direction of curvature through at least 90°, and
 - the rod having a minimum radius of curvature at any point between said spaced ends which is greater than said predetermined wavelength.
- 16. (original) A sieve in accordance with Claim 15, wherein said minimum radius of curvature is greater than 50 mm.
- 17. (original) A sieve in accordance with Claim 15, wherein said predetermined wavelength is between 25 mm and 35 mm.
- 18. (currently amended) A sieve in accordance with any of Claims

- 15 to 17Claim 15, wherein said rod bends in said single direction of curvature, over at least a portion thereof, by at least 180°.
- 19. (currently amended) A sieve in accordance with any preceding claim 15, wherein the sieve further comprises a support frame beneath the sieve screen.
- 20. (original) A sieve in accordance with Claim 19, wherein said excitation source comprises a transducer, resonator, and a support device, which supports the excitation source on the support frame and also acts to minimise the excitation of said support frame.
- 21. (original) A sieve in accordance with Claim 20, wherein an additional support device for the resonator is provided at a node and is attached to the resonator such that excitation of the support frame is minimized.
- 22. (currently amended) A sieve in accordance with any of Claims 15 to 21Claim 15 including a plurality of said resontator rods on a single said screen, each of said plurality of resontator rods having a respective ultrasonic transducer at one end of the rod.
- 23. (currently amended) A sieve in accordance with any of Claims 15 to 22Claim 15, wherein the curvature of the rod varies over the length of the rod between the ends.
- 24. (currently amended) A sieve in accordance with any of Claims 1 to 14Claim 1, wherein the excitation source is not attached to the guide member or resonator and has a striking surface arranged to strike the guide member or resonator when the excitation source is energized.
- 25. (currently amended) A sieve in accordance with any of Claims 1 to 14Claim 1, wherein the excitation source is not attached to the guide member or resonator and has a contact surface arranged

to apply pressure to the guide member or resonator to communicate vibrations to the guide member or resonator when the excitation source is energized.

- 26. (currently amended) A sieve in accordance with any of Claims 1 to 14 and 24 or 26Claim 1, wherein the excitation source is parasitic, depending on the vibration of the frame produced by said vibrator.
- 27. (canceled).